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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference	FOR FURTHER ACTIO	N See Form Po	CT/IPE 4/416		
FOR FURTHER ACTION See Form PCT/IPEA/416					
International application No.	International filing date (day	y/month/year)	Priority date (day/month/year)		
PCT/FI2004/050176	24-11-2004		15-12-2003		
International Patent Classification (IPC) o	r national classification and II	PC			
H01L23/60 // H05F3/02					
Applicant					
Nokia Corporation et	al				
This report is the international pre	liminary evamination report	established by this	International Preliminary Examining		
Authority under Article 35 and tra	ansmitted to the applicant acc	cording to Article 3	6.		
2. This REPORT consists of a total of	of 3 sheets, inc	cluding this cover	sheet.		
3. This report is also accompanied by		_			
	, in the seas, comprising.				
a. (sent to the applicant	and to the International Bure	eau) a total of	sheets, as follows:		
sheets of the o	description, claims and/or drav	wings which have	been amended and are the basis of this report		
and/or sheets Administrativ	containing rectifications authors.	orized by this Auth	nority (see Rule 70.16 and Section 607 of the		
sheets which s	supersede earlier sheets, but w	which this Authorit	y considers contain an amendment that goes		
beyond the dis	sclosure in the international a	pplication as filed,	as indicated in item 4 of Box No. I and the		
Supplemental	Box.		:		
b (sent to the Internatio	nal Bureau only) a total of (in	ndicate type and nu	mber of electronic carrier(s))		
	, containing a	sequence listing a	nd/or tables related thereto, in electronic		
form only, as indicate Administrative Instruc	ed in the Supplemental Box Re	elating to Sequence	e Listing (see Section 802 of the		
	tating to the following items:				
	- '				
Box No. II Priority			:		
Box No. III Non-est	ablishment of opinion with re	gard to novelty, in	ventive step and industrial applicability		
Box No. IV Lack of	unity of invention				
Box No. V Reasone	ed statement under Article 35((2) with regard to n	novelty, inventive step or industrial		
	applicability; citations and explanations supporting such statement				
<u> </u>					
	Box No. VII Certain defects in the international application				
Box No. VIII Certain	observations on the internation	onal application			
Date of submission of the demand	Dat	te of completion of	f this report		
_					
26-09-2005		07-11-2005			
Name and mailing address of the IPEA/SE	Au	thorized officer			
Patent- och registreringsverket Box 5055					
S-102 42 STOCKHOLM	To	omas Erlan	dsson /LR		
Facsimile No. +46 8 667 72 88	Tel		8 782 25 00		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Box	No. I	I Basis of the report	
1.	With	regard to the language, this report is based on:	
ļ	\boxtimes	the international application in the language in which it was filed	
ļ	Ш	a translation of the international application into	,
		which is the language of a translation furnished for the purposes of:	
ĺ		international search (Rules 12.3(a) and 23.1(b))	
Ì		publication of the international application (Rule 12.4(a))	
İ		international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
	jurius	regard to the elements of the international application, this report is based on (is shed to the receiving Office in response to an invitation under Article 14 are referred are not annexed to this report):	replacement sheets which have been to in this report as "originally filed"
		the international application as originally filed/furnished	
		the description:	
		pages	as originally filed/furnished
		pages* received by this Authority on	
i		pages* received by this Authority on	
		the claims:	
		pages	as originally filed/furnished
		pages* as amended (together v	with any statement) under Article 19
		pages* received by this Authority on	
		pages* received by this Authority on	
		the drawings:	
			as originally filed/furnished
		pages* received by this Authority on	
ſ		and it is it is a factor of the fact	
l		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Seq	uence Listing.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	•
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this remade, since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)).	eport and listed below had not been ated in the Supplemental Box (Rule
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
		4 applies, some or all of those sheets may be marked "superseded."	
orm P	CT/IP	PEA/409 (Box No. I) (April 2005)	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/FI2004/050176

Box	x No. V	Reasoned statement u	ınder Article : tions supporti	55(2) with regard to novelty, inventiving such statement	re step or industrial applicability;
1.	Statement	t			
	Nove	lty (N)	Claims Claims	1-15	YES NO
	Inven	tive step (IS)	Claims Claims	1-15	YES NO
	Indust	trial applicability (IA)	Claims Claims	1-15	YES NO
	·				

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 4796084 A

D2: US 2001033478 A1 D3: JP 2001196638 A

The cited documents represent the general state of the art.

The invention defined in claims 1-15 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed semiconductor component. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-15 is novel and is considered to involve an inventive step. The invention is industrially applicable.